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ABSTRACT

Discussing recent issues in computer science, this book contains 11 chapters covering: (1) developments that have the potential for changing the way computers operate, including microprocessors, mass storage systems, and computing environments; (2) the national computational grid for high-bandwidth, high-speed collaboration among scientists, and the work being undertaken by consortia; (3) recent product developments in the computer and information technology industries that influence the way businesses and individuals interface with the world, including networking, portability, and human-computer interfaces; (4) social, political, ethical, and economic concerns that have grown around developments in computer science, including Microsoft's influence, privacy, encryption, universal access, adaptive technologies, and gender issues; (5) biographical sketches of important individuals; (6) documents and speeches that provide background on some of the important issues and developments in the computer field; (7) a snapshot of the career paths available in the computer and information services industries, focusing on education, skill, and experience requirements; (8) graphs, tables, and maps that focus on careers and trends associated with computing and the development of new applications and information systems; (9) organizations and associations, both national and international, dedicated to computer science, computational science, computer engineering or issues related to the way information technology is changing society; (10) an annotated bibliography of reference books, technical texts, journals, and World Wide Web sites; and (11) a glossary of terms. (MES)

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